

Building Site Development

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Washington County, Iowa

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7B: Wiota-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
11B: Colo-----	60	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
Ely-----	30	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone	0.95	Not limited	
24D2: Shelby-----	95	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
41C: Sparta-----	95	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.03
43: Bremer-----	95	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
54: Zook-----	100	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Flooding Too clayey	1.00 0.60 0.01	Very limited Depth to saturated zone Flooding	1.00 0.60
58D2: Douds-----	95	Somewhat limited Slope Shrink-swell Frost action	 0.63 0.50 0.50	Somewhat limited Slope Depth to saturated zone	 0.63 0.15	Somewhat limited Slope	0.63
58E2: Douds-----	95	Very limited Slope Shrink-swell Frost action	 1.00 0.50 0.50	Very limited Slope Depth to saturated zone	 1.00 0.15	Very limited Slope	1.00
65D: Lindley-----	95	Very limited Low strength Slope Shrink-swell Frost action	 1.00 0.63 0.50 0.50	Somewhat limited Slope	 0.63	Somewhat limited Slope	0.63
65D2: Lindley-----	95	Very limited Low strength Slope Shrink-swell Frost action	 1.00 0.63 0.50 0.50	Somewhat limited Slope	 0.63	Somewhat limited Slope	0.63
65E: Lindley-----	95	Very limited Slope Low strength Shrink-swell Frost action	 1.00 1.00 0.50 0.50	Very limited Slope	 1.00	Very limited Slope	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
65E2: Lindley-----	95	Very limited Slope Low strength Shrink-swell Frost action	 1.00 1.00 0.50 0.50	Very limited Slope	1.00	Very limited Slope	1.00
65F: Lindley-----	90	Very limited Slope Low strength Shrink-swell Frost action	 1.00 1.00 0.50 0.50	Very limited Slope	1.00	Very limited Slope	1.00
65F2: Lindley-----	90	Very limited Slope Low strength Shrink-swell Frost action	 1.00 1.00 0.50 0.50	Very limited Slope	1.00	Very limited Slope	1.00
65G: Lindley-----	95	Very limited Slope Low strength Shrink-swell Frost action	 1.00 1.00 0.50 0.50	Very limited Slope	1.00	Very limited Slope	1.00
74: Rubio-----	95	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
75: Givin-----	95	Very limited Frost action Low strength Shrink-swell	 1.00 1.00 0.50	Very limited Depth to saturated zone	0.95	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
76B: Ladoga-----	95	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
76B2: Ladoga-----	95	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
76C: Ladoga-----	100	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
76C2: Ladoga-----	100	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
76C3: Ladoga-----	100	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
76D2: Ladoga-----	95	Very limited Low strength	1.00	Somewhat limited Slope Depth to saturated zone	0.63 0.15	Somewhat limited Slope	0.63
		Slope	0.63				
		Shrink-swell	0.50				
		Frost action	0.50				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
76D3: Ladoga-----	95	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope Depth to saturated zone	0.63 0.15	Somewhat limited Slope	0.63
80B: Clinton-----	95	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
80C: Clinton-----	100	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
80C2: Clinton-----	100	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
80C3: Clinton-----	100	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
80D: Clinton-----	95	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope Depth to saturated zone	0.63 0.15	Somewhat limited Slope	0.63

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
80D2: Clinton-----	95	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope Depth to saturated zone	0.63 0.15	Somewhat limited Slope	0.63
80D3: Clinton-----	95	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope Depth to saturated zone	0.63 0.15	Somewhat limited Slope	0.63
87B: Colo-----	60	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
Zook-----	25	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Too clayey	1.00 0.01	Very limited Depth to saturated zone	1.00
88: Nevin-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone	0.95	Not limited	
93D2: Shelby-----	55	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope Depth to saturated zone	0.63 0.16	Somewhat limited Slope	0.63

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Adair-----	35	Very limited Frost action Low strength Shrink-swell Slope Depth to saturated zone	1.00 1.00 1.00 0.63 0.19	Very limited Depth to saturated zone Slope Too clayey	1.00 0.63 0.41	Somewhat limited Slope Depth to saturated zone	0.63 0.19
93D3: Shelby-----	55	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope Depth to saturated zone	0.63 0.16	Somewhat limited Slope	0.63
Adair-----	35	Very limited Frost action Low strength Shrink-swell Slope Depth to saturated zone	1.00 1.00 1.00 0.63 0.19	Very limited Depth to saturated zone Slope Too clayey	1.00 0.63 0.41	Somewhat limited Slope Depth to saturated zone	0.63 0.19
122: Sperry-----	95	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Too clayey	1.00 0.01	Very limited Depth to saturated zone	1.00
133: Colo-----	100	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 0.60

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
133+: Colo-----	100	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 0.60
163E: Fayette-----	90	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope	1.00
163E2: Fayette-----	90	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope	1.00
163E3: Fayette-----	90	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope	1.00
163F: Fayette-----	90	Very limited Slope Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope	1.00
163G: Fayette-----	90	Very limited Slope Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope	1.00
175: Dickinson-----	95	Somewhat limited Frost action	0.50	Very limited cutbanks cave	0.90	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
179D2: Gara-----	95	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
179E2: Gara-----	95	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope	1.00	Very limited Slope	1.00
180: Keomah-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 1.00	Very limited Depth to saturated zone	0.95	Not limited	
192C2: Adair-----	95	Very limited Frost action Low strength Shrink-swell Depth to saturated zone	1.00 1.00 1.00 0.19	Very limited Depth to saturated zone Too clayey	1.00 0.41	Somewhat limited Depth to saturated zone	0.19
192D2: Adair-----	90	Very limited Frost action Low strength Shrink-swell Slope Depth to saturated zone	1.00 1.00 1.00 0.63 0.19	Very limited Depth to saturated zone Slope Too clayey	1.00 0.63 0.41	Somewhat limited Slope Depth to saturated zone	0.63 0.19
219: Jackson-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Very limited cutbanks cave Depth to saturated zone	0.90 0.47	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
220: Nodaway-----	90	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.61	Somewhat limited Flooding	0.60
		Flooding	1.00	Flooding	0.60		
		Low strength	1.00				
		Shrink-swell	0.50				
222C2: Clarinda-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.19
		Low strength	1.00	Too clayey	0.50		
		Shrink-swell	1.00				
		Depth to saturated zone	0.19				
222C3: Clarinda-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.19
		Low strength	1.00	Too clayey	0.50		
		Shrink-swell	1.00				
		Depth to saturated zone	0.19				
222D2: Clarinda-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Slope	0.63
		Low strength	1.00	Slope	0.63	Depth to saturated zone	0.19
		Shrink-swell	1.00	Too clayey	0.50		
		Slope	0.63				
		Depth to saturated zone	0.19				
222D3: Clarinda-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Slope	0.63
		Low strength	1.00	Slope	0.63	Depth to saturated zone	0.19
		Shrink-swell	1.00	Too clayey	0.50		
		Slope	0.63				
		Depth to saturated zone	0.19				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
223C2: Rinda-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.19
		Low strength	1.00	Too clayey	0.50		
		Shrink-swell	1.00				
		Depth to saturated zone	0.19				
223D2: Rinda-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Slope	0.63
		Low strength	1.00	Slope	0.63	Depth to saturated zone	0.19
		Shrink-swell	1.00	Too clayey	0.50		
		Slope	0.63				
		Depth to saturated zone	0.19				
263: Okaw-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Too clayey	0.50		
		Low strength	1.00				
		Shrink-swell	1.00				
264B: Ainsworth-----	95	Very limited Frost action	1.00	Very limited cutbanks cave	0.90	Not limited	
		Low strength	1.00	Depth to saturated zone	0.16		
		Shrink-swell	0.50				
269: Humeston-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Flooding	0.60	Flooding	0.60
		Flooding	1.00				
		Low strength	1.00				
		Shrink-swell	1.00				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
279: Taintor-----	95	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
280: Mahaska-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone	0.95	Not limited	
281B: Otley-----	95	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
281B2: Otley-----	95	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
281C: Otley-----	95	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
281C2: Otley-----	95	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
281C3: Otley-----	95	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
281D2: Otley-----	95	Very limited Low strength	1.00	Somewhat limited Slope Depth to saturated zone	0.63 0.15	Somewhat limited Slope	0.63
		Slope	0.63				
		Shrink-swell	0.50				
		Frost action	0.50				
281D3: Otley-----	95	Very limited Low strength	1.00	Somewhat limited Slope Depth to saturated zone	0.63 0.15	Somewhat limited Slope	0.63
		Slope	0.63				
		Shrink-swell	0.50				
		Frost action	0.50				
293E2: Fayette-----	40	Very limited Frost action	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	1.00				
		Slope	1.00				
		Shrink-swell	0.50				
Lamont-----	30	Very limited Slope	1.00	Very limited Slope cutbanks cave	1.00 0.90	Very limited Slope	1.00
		Frost action	0.50				
Chelsea-----	20	Very limited Slope	1.00	Very limited Slope cutbanks cave	1.00 0.90	Very limited Slope Droughty	1.00 0.31
294C2: Ladoga-----	60	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
Billett-----	30	Somewhat limited Frost action	0.50	Very limited cutbanks cave	0.90	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
294D2: Ladoga-----	60	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope Depth to saturated zone	0.63 0.15	Somewhat limited Slope	0.63
Billett-----	30	Somewhat limited Slope Frost action	0.63 0.50	Very limited cutbanks cave Slope	0.90 0.63	Somewhat limited Slope	0.63
295C2: Clinton-----	40	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
Lamont-----	30	Somewhat limited Frost action	0.50	Very limited cutbanks cave	0.90	Not limited	
Chelsea-----	20	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.31
295D2: Clinton-----	40	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope Depth to saturated zone	0.63 0.15	Somewhat limited Slope	0.63
Lamont-----	30	Somewhat limited Slope Frost action	0.63 0.50	Very limited cutbanks cave Slope	0.90 0.63	Somewhat limited Slope	0.63
Chelsea-----	20	Somewhat limited Slope	0.63	Very limited cutbanks cave Slope	0.90 0.63	Somewhat limited Slope Droughty	0.63 0.31

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
295D3: Clinton-----	40	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope Depth to saturated zone	0.63 0.15	Somewhat limited Slope	0.63
Lamont-----	30	Somewhat limited Slope Frost action	0.63 0.50	Very limited cutbanks cave Slope	0.90 0.63	Somewhat limited Slope	0.63
Chelsea-----	20	Somewhat limited Slope	0.63	Very limited cutbanks cave Slope	0.90 0.63	Somewhat limited Slope Droughty	0.63 0.31
422: Amana-----	95	Very limited Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	0.95 0.60	Somewhat limited Flooding	0.60
424D: Lindley-----	55	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
Keswick-----	35	Very limited Frost action Low strength Shrink-swell Slope Depth to saturated zone	1.00 1.00 1.00 0.63 0.19	Very limited Depth to saturated zone Slope Too clayey	1.00 0.63 0.28	Somewhat limited Slope Depth to saturated zone	0.63 0.19
424D2: Lindley-----	55	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Keswick-----	35	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Slope	0.63
		Low strength	1.00	Slope	0.63	Depth to saturated zone	0.19
		Shrink-swell	1.00	Too clayey	0.28		
		Slope	0.63				
		Depth to saturated zone	0.19				
424D3: Lindley-----	55	Very limited Low strength	1.00	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Slope	0.63				
		Shrink-swell	0.50				
		Frost action	0.50				
Keswick-----	35	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Slope	0.63
		Low strength	1.00	Slope	0.63	Depth to saturated zone	0.19
		Slope	0.63	Too clayey	0.28		
		Shrink-swell	0.50				
		Depth to saturated zone	0.19				
424E2: Lindley-----	55	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	1.00				
		Shrink-swell	0.50				
		Frost action	0.50				
Keswick-----	35	Very limited Frost action	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.19
		Shrink-swell	1.00	Too clayey	0.28		
		Slope	1.00				
		Depth to saturated zone	0.19				

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Washington County, Iowa

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
425D2: Keswick-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Slope	0.63
		Low strength	1.00	Slope	0.63	Depth to saturated zone	0.19
		Shrink-swell	1.00	Too clayey	0.28		
		Slope	0.63				
		Depth to saturated zone	0.19				
428B: Ely-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Low strength	1.00				
		Shrink-swell	0.50				
430: Ackmore-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Flooding	0.60
		Flooding	1.00	Flooding	0.60	Depth to saturated zone	0.19
		Low strength	1.00				
		Shrink-swell	0.50				
		Depth to saturated zone	0.19				
453: Tuskeego-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Low strength	1.00				
		Shrink-swell	1.00				
		Frost action	0.50				
484: Lawson-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Flooding	0.60
		Flooding	1.00	Flooding	0.60	Depth to saturated zone	0.19
		Low strength	1.00				
		Depth to saturated zone	0.19				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
499F: Nordness-----	85	Very limited Depth to hard bedrock Low strength Slope Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.57
520: Coppock-----	100	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 0.60
520B: Coppock-----	100	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
539: Perks-----	90	Very limited Flooding	1.00	Very limited cutbanks cave Flooding	0.90 0.60	Very limited Droughty Flooding	1.00 0.60
570B: Nira-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
570B2: Nira-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
570C2: Nira-----	95	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Low strength Shrink-swell	1.00 0.50				
570C3: Nira-----	95	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Low strength Shrink-swell	1.00 0.50				
571B: Hedrick-----	95	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Low strength Shrink-swell	1.00 0.50				
571B2: Hedrick-----	95	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Low strength Shrink-swell	1.00 0.50				
571C2: Hedrick-----	95	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Low strength Shrink-swell	1.00 0.50				
571C3: Hedrick-----	95	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Low strength Shrink-swell	1.00 0.50				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
572B: Inton-----	95	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Low strength	1.00				
		Shrink-swell	0.50				
572C2: Inton-----	95	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Low strength	1.00				
		Shrink-swell	0.50				
592D2: Mystic-----	95	Very limited Frost action	1.00	Somewhat limited Slope Depth to saturated zone	0.63 0.61	Somewhat limited Slope	0.63
		Low strength	1.00				
		Shrink-swell	1.00				
		Slope	0.63				
687B: Watkins-----	95	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength	1.00				
		Shrink-swell	0.50				
688: Koszta-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Not limited	
		Low strength	1.00				
		Shrink-swell	0.50				
715: Nodaway-----	65	Very limited Frost action	1.00	Somewhat limited Flooding Depth to saturated zone	0.80 0.61	Very limited Flooding	1.00
		Flooding	1.00				
		Low strength	1.00				
		Shrink-swell	0.50				
Perks-----	20	Very limited Flooding	1.00	Very limited cutbanks cave Flooding	0.90 0.60	Very limited Droughty Flooding	1.00 0.60

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
729B: Ackmore-----	50	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Flooding	0.60
		Flooding	1.00	Flooding	0.60	Depth to saturated zone	0.19
		Low strength	1.00				
		Shrink-swell	0.50				
		Depth to saturated zone	0.19				
Nodaway-----	40	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.61	Somewhat limited Flooding	0.60
		Flooding	1.00	Flooding	0.60		
		Low strength	1.00				
		Shrink-swell	0.50				
779: Kalona-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00				
		Low strength	1.00				
		Shrink-swell	1.00				
792C2: Armstrong-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.19
		Low strength	1.00	Too clayey	0.32		
		Shrink-swell	1.00				
		Depth to saturated zone	0.19				
792D2: Armstrong-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Slope	0.63
		Low strength	1.00	Slope	0.63	Depth to saturated zone	0.19
		Shrink-swell	1.00	Too clayey	0.32		
		Slope	0.63				
		Depth to saturated zone	0.19				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
793B: Bertrand-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Very limited cutbanks cave	0.90	Not limited	
795D2: Ashgrove-----	100	Very limited Frost action Low strength Shrink-swell Slope Depth to saturated zone	1.00 1.00 1.00 0.63 0.19	Very limited Depth to saturated zone Slope Too clayey	1.00 0.63 0.50	Somewhat limited Slope Depth to saturated zone	0.63 0.19
876B: Ladoga-----	95	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
876C2: Ladoga-----	100	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
880B: Clinton-----	95	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
880C2: Clinton-----	100	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
880D2: Clinton-----	90	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope Depth to saturated zone	0.63 0.15	Somewhat limited Slope	0.63
881B: Otley-----	95	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
993D2: Gara-----	55	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope Depth to saturated zone	0.63 0.16	Somewhat limited Slope	0.63
Armstrong-----	35	Very limited Frost action Low strength Shrink-swell Slope Depth to saturated zone	1.00 1.00 1.00 0.63 0.19	Very limited Depth to saturated zone Slope Too clayey	1.00 0.63 0.32	Somewhat limited Slope Depth to saturated zone	0.63 0.19
993D3: Gara-----	55	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope Depth to saturated zone	0.63 0.16	Somewhat limited Slope	0.63

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Armstrong-----	35	Very limited Frost action Low strength Shrink-swell Slope Depth to saturated zone	1.00 1.00 1.00 0.63 0.19	Very limited Depth to saturated zone Slope Too clayey	1.00 0.63 0.32	Somewhat limited Slope Depth to saturated zone	0.63 0.19
993E2: Gara-----	55	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Depth to saturated zone	1.00 0.16	Very limited Slope	1.00
Armstrong-----	35	Very limited Frost action Low strength Shrink-swell Slope Depth to saturated zone	1.00 1.00 1.00 1.00 0.19	Very limited Slope Depth to saturated zone Too clayey	1.00 1.00 0.32	Very limited Slope Depth to saturated zone	1.00 0.19
994D3: Galland-----	50	Very limited Frost action Low strength Shrink-swell Slope	1.00 1.00 1.00 0.63	Somewhat limited Slope Depth to saturated zone Too clayey	0.63 0.61 0.01	Somewhat limited Slope	0.63
Douds-----	40	Somewhat limited Slope Shrink-swell Frost action	0.63 0.50 0.50	Somewhat limited Slope Depth to saturated zone	0.63 0.15	Somewhat limited Slope	0.63
1075: Givin-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone	0.95	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1180: Keomah-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Low strength Shrink-swell	1.00 1.00				
1280: Mahaska-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Low strength Shrink-swell	1.00 0.50				
1354: Aguents-----	95	Not rated		Not rated		Not rated	
1484: Lawson-----	90	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Flooding	1.00	Flooding	0.80	Depth to saturated zone	0.19
		Low strength Depth to saturated zone	1.00 0.19				
2226: Elrin-----	95	Very limited Frost action	1.00	Very limited cutbanks cave Depth to saturated zone	0.90 0.61	Not limited	
2242: Nodaway-----	50	Very limited Frost action	1.00	Somewhat limited Flooding	0.80	Very limited Flooding	1.00
		Flooding	1.00	Depth to saturated zone	0.61		
		Low strength Shrink-swell	1.00 0.50				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Amana-----	40	Very limited Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	0.95 0.80	Very limited Flooding	1.00
5030: Pits, Quarries-----	100	Not rated		Not rated		Not rated	
5040: Orthents-----	100	Not rated		Not rated		Not rated	
W: Water-----	100	Not rated		Not rated		Not rated	